PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 21087.0026P1	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/US2004/006360	International filing date (day/month/year) 02 March 2004 (02.03.2004)	Priority date (day/month/year) 10 March 2003 (10.03.2003)]				
International Patent Classification (IPC) or national classification and IPC ⁷ A61B 5/05						
Applicant UNIVERSITY OF IOWA RESEARCH FOUNDATION						

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).					
2.	This REPORT consists of a total of 5 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI Certain documents cited					
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).					

	Date of issuance of this report 16 September 2005 (16.09.2005)	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Dorothée Mülhausen	
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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: REC'D 23 MAY 2005 JENNIFER PEARSON MEDLIN NEEDLE & ROSENBERG, P.C. POT **SUITE 1000** WRITTEN OPINION OF THE 999 PEACHTREE STREET INTERNATIONAL SEARCHING AUTHORITY ATLANTA, GA 30309-3915 (PCT Rule 43bis.1) Date of mailing 2.0 MAY 2005 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 21087.0026P1 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US04/06360 02 March 2004 (02.03.2004) 10 March 2003 (10.03.2003) International Patent Classification (IPC) or both national classification and IPC IPC(7): A 61 B 5/05 and US Cl.: 600/407,410,425,436; 382/131; 606/130; 378/21,23 Applicant UNIVERSITY OF IOWA RESEARCH FOUNDATION 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450

Telephone No. 571-272-4739

Form PCT/ISA/237 (cover sheet) (January 2004)

Facsimile No. (703) 305-3230

Alexandria, Virginia 22313-1450

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/06360

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/06360

Box N	No. II Priority
1.	The following document has not yet been furnished:
	copy of the earlier application whose priority has been claimed (Rules 43bis.1 and 66.7(a)).
	translation of the earlier application whose priority has been claimed (Rules 43bis.1 and 66.7(b)).
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.
2. 🔀	This opinion has been established as if no priority has been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
The	onal observations, if necessary: priority claim has been found invalid because the filing date of the priority application is outside the time period provided in Rule 4.10.
Form PO	CT/ISA/237 (Box No. II) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/06360

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)		Claims	NONE		YES	
		Claims			NO	
Inventive step (IS	(3)	Claims	NONE		YES	
	•	Claims			NO	
Industrial applica	bility (IA)	Claims	1-30		YES	
	(111)		NONE		NO	
2. Citations and explanation Claims 1-30 lack novelty under Grzeszczuk et al anticipate all can object is reconstructed from 18 applied to reconstructed imaline 18). The images obtained a CT imager as shown in figure figure 3) where the image reconshown in figure 1.	PCT Article 33(2) a claimed features in claimed first imaging system ges to provide surfaction the CT, MRI, it is 1 changes the angel	laims 1-30. Gr such as CT, N ce mapping (co PET, etc. are in l of the scan to	zeszczuk et al disclose and RI, PET (column 1, li lumn 3, line 42 - column 1 three-dimensional imaterate the image acquis	a method and apparatus nes 53-60) with optical in 4, line 38; column 5, ages (column 1, lines 53 sition procedure (see ble	where an image of imaging component line 4 - column 6, 8-60). The C-arm of ock diagram on	